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23 July 1953

Eymap J 50X1
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MEMORANDUM FOR: THE RECORD

SUBJECT: Contract Monitor at [REDACTED]

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1. On 16 July 1953 a meeting was held with [REDACTED] in which he reviewed the progress on contracts to date. [REDACTED] reported on Task One, [REDACTED] on Task Two, and [REDACTED] on Task Four [REDACTED].

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2. Task One, [REDACTED] transmitters: [REDACTED] has nearly completed a survey on commercially available and military equipment of possible use in the transmitter field. A report on this survey is to be submitted within a few weeks. The general conclusion of the survey is that there is no commercial equipment which will adequately do the job. The most adequate transmitter found is that of the military transmitter from AN/APT, the frequency range being 400 to 1400 Mc.

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3. As a result of the above survey, [REDACTED] has made a rough design of two transmitters to cover the ranges 100 to 500 Mc and 400 to 1000 Mc. at a power of from one to five watts. There are plans to design a third amplifier to cover the range of 1000 to 4000 Mc. at the same power output if this is feasible. If this proves not the case, a transmitter as close to these specifications as possible will be designed.

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4. To facilitate the above designs a survey of high frequency tubes was made. A report of this survey will be incorporated in the transmitter report. It was found that most klystrons could not be tuned over a wide enough frequency range to be of use in the transmitter. The tube found to be best suited for this purpose is the 2C39A made by Eitel-McCullough Inc., San Bruno, California. This tube will give a 5 watt output up to 2500 Mc. For higher frequencies traveling wave tubes are being considered. These are available from Varian Inc., Palo Alto, California when adequate clearances have been obtained.

5. Task Two, [REDACTED] receivers: [REDACTED] is in the process of modifying the present search receiver to improve its sensitivity. The audio bandwidth is being reduced to 500 cycles. At present only the preamplifier has been modified. This modification is to be incorporated in the present rush production contract.

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6. Good progress/

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6. Good progress is being made on The boxes have all been constructed and the coils are being wound. Some delay has been encountered in the procurement of components but the situation has been resolved.

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